

## FY 2005 ENERGY MANAGEMENT DATA REPORT

Agency: Department of the Interior  
 Date: 5-Dec-05

Prepared by: Mary Heying  
 Phone: 202-208-4080

### PART 1: ENERGY CONSUMPTION AND COST DATA

#### 1-1. Standard Buildings/Facilities

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Billion)	Est. Source Btu (Billion)	Est. Carbon Emissions (Metric Tons)
Electricity	MWH	641,228.1	\$52,149.5	\$0.08 /kWh	2,187.9	7,598.6	109,481
Fuel Oil	Thou. Gal.	3,819.0	\$6,525.2	\$1.71 /gallon	529.7	529.7	10,567
Natural Gas	Thou. Cubic Ft.	1,089,144.2	\$10,433.5	\$9.58 /Thou Cu Ft	1,122.9	1,122.9	16,248
LPG/Propane	Thou. Gal.	7,991.5	\$8,979.4	\$1.12 /gallon	763.2	763.2	12,967
Coal	S. Ton	41.8	\$2.7	\$64.59 /S. Ton	1.0	1.0	26
Purch. Steam	BBtu	76.4	\$1,855.6	\$24.29 /MMBtu	76.4	106.2	2,733
Other	BBtu	553.6	\$804.4	\$1.45 /MMBtu	553.6	553.6	
		Total Costs:	\$80,750.3	Total:	5,234.7	10,675.2	152,023
Standard Buildings/Facilities (Thou. Gross Square Feet)		62,500.4		Btu/GSF:	83,754	170,802	
				Btu/GSF w/ RE Purchase Credit:	83,664	170,711	
				Btu/GSF w/ RE & Sec. 502(e) Credit:	83,664	170,711	

#### 1-2. Industrial, Laboratory, Research, and Other Energy-Intensive Facilities

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Billion)	Est. Source Btu (Billion)	Est. Carbon Emissions (Metric Tons)
Electricity	MWH	0.0	\$0.0	#DIV/0! /kWh	0.0	0.0	0
Fuel Oil	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0	0
Natural Gas	Thou. Cubic Ft.	0.0	\$0.0	#DIV/0! /Thou Cu Ft	0.0	0.0	0
LPG/Propane	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0	0
Coal	S. Ton	0.0	\$0.0	#DIV/0! /S. Ton	0.0	0.0	0
Purch. Steam	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0	0
Other	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0	0
		Total Costs:	\$0.0	Total:	0.0	0.0	0
Energy-Intensive Facilities (Thou. Gross Square Feet)		0.0		Btu/GSF:	#DIV/0!	#DIV/0!	
				Btu/GSF w/ RE Purchase Credit:	#DIV/0!	#DIV/0!	
				Btu/GSF w/ RE & Sec. 502(e) Credit:	#DIV/0!	#DIV/0!	

### 1-3. Exempt Facilities

Energy Type	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Site-Delivered Btu (Billion)	Est. Source Btu (Billion)	Est. Carbon Emissions (Metric Tons)
Electricity	MWH	0.0	\$0.0	#DIV/0! /kWh	0.0	0.0	0
Fuel Oil	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0	0
Natural Gas	Thou. Cubic Ft.	0.0	\$0.0	#DIV/0! /Thou Cu Ft	0.0	0.0	0
LPG/Propane	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0.0	0
Coal	S. Ton	0.0	\$0.0	#DIV/0! /S. Ton	0.0	0.0	0
Purch. Steam	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0	0
Other	BBtu	0.0	\$0.0	#DIV/0! /MMBtu	0.0	0.0	0
		Total Costs:	\$0.0	Total:	0.0	0.0	0
Exempt Facilities (Thou. Gross Square Feet)		0.0		Btu/GSF:	#DIV/0!	#DIV/0!	
				Btu/GSF w/ RE Purchase Credit:	#DIV/0!	#DIV/0!	
				Btu/GSF w/ RE & Sec. 502(e) Credit:	#DIV/0!	#DIV/0!	

### 1-4. Non-Fleet Vehicles and Other Equipment

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)	Unit Cost (\$)	Btu (Billion)	Est. Carbon Emissions (Metric Tons)
Auto Gasoline	Thou. Gal.	578.1	\$1,226.9	\$2.12 /gallon	72.3	1,398
Diesel-Distillate	Thou. Gal.	763.4	\$1,617.5	\$2.12 /gallon	105.9	2,112
LPG/Propane	Thou. Gal.	47.7	\$78.2	\$1.64 /gallon	4.6	77
Aviation Gasoline	Thou. Gal.	357.4	\$1,129.1	\$3.16 /gallon	44.7	843
Jet Fuel	Thou. Gal.	1,086.5	\$2,378.4	\$2.19 /gallon	141.2	2,730
Navy Special	Thou. Gal.	0.0	\$0.0	#DIV/0! /gallon	0.0	0
Other	BBtu	236.9	\$2,722.5	\$11.49 /MMBtu	236.9	
Total Costs			\$9,152.6		605.5	7,161

### 1-5. WATER CONSUMPTION, COST AND EFFICIENCY MEASURES

	Consumption Units	Annual Consumption	Annual Cost (Thou. \$)
Water	Million Gal.	2,775.0	\$11,508.5
Best Management Practice Implementation Tracking Data			
Number of facilities* in agency inventory			1,567
Number of facilities with completed water management plans			628
Number of facilities with at least four (4) BMPs fully implemented			228
*number in the agency inventory, can be buildings, bases, or campuses			

**1-6. RENEWABLE ENERGY/RENEWABLE ENERGY CERTIFICATE PURCHASES IN FY 2005**

(Only include renewable energy purchases from resources developed after 1990)

Description of <i>Each</i> Renewable Energy Purchase (examples below, insert additional rows as necessary for each separate purchase)	Amount Purchased (MWH)	or Amount Purchased (Million Btu)	State or Region of Generation or Source	End Use Category (Standard, EI, or Exempt)
Electricity from Renewable Source	1,199.0	0.0	CA, OR	Standard
Electricity from Renewable Source	52.9	0.0	UT	Standard
Electricity from Renewable Source	400.0	0.0	PA	Standard
Renewable Energy Certificates	0.2	0.0	WY, OR, WA	Standard
Natural Gas from Landfill/Biomass	0.0	0.0		Exempt
Renewable Thermal Energy	0.0	0.0		
Other Renewable Energy -geothermal hot water	0.0	35.2	ID	Standard
Total All Purchases	1,652.1	35.2		
Total Purchases for Standard Buildings	1,652.1	35.2		
Total Purchases for Energy Intensive Facilities	0.0	0.0		
Total Purchases for Exempt Facilities	0.0	0.0		

**1-7. SELF-GENERATED RENEWABLE ENERGY INSTALLED AFTER 1990**

	Consumption Units	Total Annual Energy	Energy Used by Agency*
Electricity from Renewables	MWH	4,410.0	4,410.0
Natural Gas from Landfill/Biomass	MMBtu	0.0	0.0
Renewable Thermal Energy**	MMBtu	5,500.0	5,500.0
Other Renewable Energy_Wind_***	MMBtu	4,100.0	4,100.0

\*Energy used by agency equals total annual generation unless a project sells a portion of the energy it produces to another agency or the private sector. It can equal zero in the case of non-Federal energy projects developed on Federal land.

\*\*Examples are geothermal, solar thermal, and geothermal heat pumps, and the thermal portion of combined heat and power projects. Energy savings from geothermal heat pumps should be based on energy savings compared to conventional alternatives like air-to-air heat pumps. If only electricity savings are known, multiply kWh savings by 3,412 to estimate renewable energy BTUs.

\*\*\*For other renewable energy that does not fit any category, fill in the type, units used, annual consumption and cost, and include any additional information in your narrative submission. For example energy displaced by daylighting technology or passive solar design.

**1-8. TOTAL RENEWABLE ENERGY USE AS A PERCENTAGE OF FACILITY ELECTRICITY USE**

Renewable Energy Use (BBtu)	Facility Electricity Use (BBtu)	RE as a Percentage of Electricity Use
30.3	2,187.9	1.4%

**PART 2: ENERGY EFFICIENCY IMPROVEMENTS****2-1. DIRECT AGENCY OBLIGATIONS**

(Agencies may attach their final OMB Circular A-11 Energy and Transportation Efficiency Management Exhibit in lieu of completing Table 2-1.)

	FY 2005		Projected FY 2006	
	(MMBTU)	(Thou. \$)	(MMBTU)	(Thou. \$)
Direct obligations for facility energy efficiency improvements, including facility surveys/audits		\$7,592.0		\$4,634.3
Estimated annual savings anticipated from obligations	3,789.4	\$138.6	3,396.4	\$265.8

**2-2. ENERGY SAVINGS PERFORMANCE CONTRACTS (ESPC)**

	Annual savings (MMBTU)	(number/Thou. \$)
Number of ESPC Task/Delivery Orders awarded in fiscal year & annual energy (MMBTU) savings.	0.0	0
Investment value of ESPC Task/Delivery Orders awarded in fiscal year.		\$0.0
Amount privately financed under ESPC Task/Delivery Orders awarded in fiscal year.		\$0.0
Cumulative guaranteed cost savings of ESPCs awarded in fiscal year relative to the baseline spending.		\$0.0
Total contract award value of ESPCs awarded in fiscal year (sum of contractor payments for debt repayment, M&V, and other negotiated performance period services).		\$0.0
Total payments made to all ESP contractors in fiscal year.		\$17.4

**2-3. UTILITY ENERGY SERVICES CONTRACTS (UESC)**

	Annual savings (MMBTU)	(number/Thou. \$)
Number of UESC Task/Delivery Orders awarded in fiscal year & annual energy (MMBTU) savings.	0.0	0
Investment value of UESC Task/Delivery Orders awarded in fiscal year.		\$0.0
Amount privately financed under UESC Task/Delivery Orders awarded in fiscal year.		\$0.0
Cumulative cost savings of UESCs awarded in fiscal year relative to the baseline spending.		\$0.0
Total contract award value of UESCs awarded in fiscal year (sum of payments for debt repayment and other negotiated performance period services).		\$0.0
Total payments made to all UESC contractors in fiscal year.		\$0.0

**2-4. UTILITY INCENTIVES (REBATES)**

	Annual savings (MMBTU)	(Thou. \$)
Incentives received and estimated energy savings	0.9	\$3.4
Funds spent in order to receive incentives		\$9.3

**2-5. TRAINING**

	(number)	(Thou. \$)
Number of personnel trained/Expenditure	149	\$164.5